ARCHIVES OF SURGERY

EDITORIAL BOARD

WALTMAN WALTERS, Chairman, Rochester, Minn.
LESTER R. DRAGSTEDT, Chicago
ROBERT ELMAN, St. Louis
ALFRED BLALOCK, Baltimore
ALTON OCHSNER, New Orleans
A. J. SCHOLL, Los Angeles
ARTHUR W. ALLEN, Boston
G. E. LINDSKOG, New Haven, Conn.
COBB PILCHER, Nashville, Tenn.

VOLUME 55
1947

PUBLISHERS
AMERICAN MEDICAL ASSOCIATION
CHICAGO, ILL.

Medical
Direct

CONTENTS OF VOLUME 55

JULY 1947. NUMBER 1

PAGE

Copper Sulfate Method for Rapid Estimation of Whole Blood Requirements. Joseph C. Edwards, M.D., St. Louis 1

Total Gastrectomy. Henry K. Ransom, M.D., Ann Arbor, Mich 13

Recent Advances in Vascular Surgery: A Review of the Literature. Ralph A. Deterling Jr., M.D., Rochester, Minn 31

Osteotomy in Treatment of Fractures of the Hip. Eslie Asbury, M.D., Cincinnati 51

Treatment of Localized Infections with Penicillin Infiltration. Frank K. Inui, M.D., Columbus, Ohio 58

Progress in Orthopedic Surgery for 1945. A Review Prepared by an Editorial Board of the American Academy of Orthopaedic Surgeons:

XIX. Conditions Involving the Elbow, the Forearm, the Wrist and the Hand. Walter C. Graham, M.D., Santa Barbara, Calif. 64

XX. Conditions Involving the Spine and Thorax, Exclusive of Those in the Lower Part of the Back. John R. Cobb, M.D., New York 76

XXI Conditions Involving the Lower Part of the Back. R. Beverly Raney, M.D., Durham, N. C 87

AUGUST 1947. NUMBER 2

Mechanism of Acute Abdominal Distention: Some Observations. Charles R. Morris, M.D., Rochester, Minn., and Andrew C. Ivy, Ph.D., M.D., and Walter G. Maddock, M.D., Chicago 101

Symposium on Peptic Ulcer:

Effect of Enterogastrone on Mann-Williamson Ulcers in Dogs. H. C. Saltzstein, M.D.; David J. Sandweiss, M.D.; John M. Hammer, M.D.; Edward J. Hill, M.D., and Henry J. Vandenberg Jr., M.D., Detroit .. 125

Effect of Vagotomy on Mann-Williamson Ulcers in Dogs. H. C. Saltzstein, M.D.; David J. Sandweiss, M.D.; John M. Hammer, M.D.; Edward J. Hill, M.D., and Henry J. Vandenberg Jr., M.D., Detroit 130

Section of the Vagus Nerves to the Stomach in the Treatment of Benign Gastric Ulcer. Paul V. Harper Jr., M.D., and Lester R. Dragstedt, M.D., Ph.D., Chicago 141

Gastric Neurectomy: Anatomic and Physiologic Studies with Favorable and Unfavorable Results in the Treatment of Peptic Ulcer. Waltman Walters, M.D.; Harold A. Neibling, M.D.; William F. Bradley, M.D.; John T. Small, M.D., and James W. Wilson, M.D., Rochester, Minn. 151

Resection of the Vagus Nerves for Ulcer; an Interim Evaluation: I. Operative Technic and Hospital Management. Francis D. Moore, M.D., Boston 164

Clinical Evaluation of Complications Observed After Transthoracic Vagotomy. K. S. Grimson, M.D.; G. J. Baylin, M.D.; H. M. Taylor, Ph.D.; F. H. Hesser, M.D., and R. W. Rundles, M.D., Durham, N. C. 175

Effect of Vagotomy on Development of the Mann-Williamson Ulcer in the Dog. James V. Oliver, M.D., Chicago 180

Denervation of the Stomach: Historical Review. John T. Small, M.D., Rochester, Minn 189

Discussion 203

Use of Buffer Thrombin in the Treatment of Gastric Hemorrhage: A Preliminary Report. Byrne M. Daly, M.D., Detroit 208

AUGUST—*Continued*

PAGE

Progress in Orthopedic Surgery for 1945. A Review Prepared by an Editorial Board of the American Academy of Orthopaedic Surgeons:
XXII. Amputations, Apparatus and Technic. J. Warren White, M.D., Greenville, S. C., and Charles J. Frankel, M.D., Charlottesville, Va. ... 213
XXIII. Research. A. R. Shands Jr., M.D., and Marion H. Morris, M.D., Wilmington, Del. ... 225

Preface ... 237

SEPTEMBER 1947. NUMBER 3

Duodenal Regurgitation. Arthur R. Metz, M.D., Chicago ... 239

Relations of Nerve Roots to Abnormalities of Lumbar and Cervical Portions of the Spine. J. Jay Keegan, M.D., Omaha ... 246

Herniated Intervertebral Disk: Analysis of Ninety Cases. William T. Peyton, M.D., and Donald R. Simmons, M.D., Minneapolis ... 271

Bilateral Oophorectomy in Early Pregnancy: Cesarean Section at Term. H. K. Bonn, M.D., Los Angeles ... 288

Radical Mastectomy: Prognosis After Survival for Five Years. Arthur B. McGraw, M.D., Grosse Pointe, Mich ... 292

Amebiasis with Pulmonary Involvement. Felix A. Hughes Jr., M.D., and Kean F. Westphal, M.D., Memphis, Tenn ... 304

Traumatic Biliary-Bronchial Fistula, with Report of Two Cases Due to War Wounds. Chester C. Guy, M.D., and Henry T. Oleck, M.D., Chicago ... 316

Congenital Atresia and Tracheoesophageal Fistula: Four Consecutive Cases of Successful Primary Esophageal Anastomosis. William P. Longmire Jr., M.D., Baltimore ... 330

Open Reduction for Fractures of the Pelvic Girdle. Herbert F. Poyner, M.D., and Denman C. Hucherson, M.D., Houston, Texas ... 339

Effects of Supradiaphragmatic Section of the Vagus Nerves in Man. Walter B. Crandell, M.D.; Walter E. Boehm, M.D., and John H. Mulholland, M.D., New York ... 343

Review of Urologic Surgery. Albert J. Scholl, M.D., Los Angeles; Frank Hinman, M.D., San Francisco; Alexander B. Hepler, M.D., Seattle; Robert Gutierrez, M.D., New York; Gershom J. Thompson, M.D., and Edward N. Cook, M.D., Rochester, Minn.; John F. Flynn, M.D., Los Angeles, and Vincent J. O'Conor, M.D., Chicago ... 349

OCTOBER 1947. NUMBER 4

Preparation for a Medical Career: Presidential Address. Casper F. Hegner, M.D., Denver ... 387

Gastric Ulcer Following Radiation. Colonel Frank E. Hamilton, Medical Corps, United States Army ... 394

Anatomic Distribution of the Vagus Nerves at Lower End of the Esophagus: Relation to Gastric Neurectomy for Ulcer. Waltman Walters, M.D.; Harold A. Neibling, M.D.; William F. Bradley, M.D.; John T. Small, M.D., and James W. Wilson, M.D., Rochester, Minn ... 400

The Medullary Nail: Presentation of a New Type and Report of a Case. Dana M. Street, M.D., Memphis, Tenn.; Harvey H. Hansen, M.D., Battle Creek, Mich., and Bruce J. Brewer, M.D., Milwaukee ... 423

Surgical Relief of Pain in Paraplegic Patients. L. Willard Freeman, M.D., Ph.D., New Haven, Conn., and Robert F. Heimburger, M.D., Chicago ... 433

OCTOBER—*Continued*

PAGE

Foreign Bodies in the Intestinal Tract. Thomas J. Snodgrass, M.D., Janesville, Wis. 441

Principles Governing Total Gastrectomy: A Report of Forty-One Cases. George T. Pack, M.D.; Gordon McNeer, M.D., and Robert J. Booher, M.D., New York 457

Decortication in the Treatment of Chronic Empyema. Anthony R. Curreri, M.D., and Joseph W. Gale, M.D., Madison, Wis 486

Endotracheal Anesthesia. Max S. Sadove, M.D., and William H. Cassels, M.D., Chicago 493

A Double-Lumened Plastic Tube for Intestinal Intubation. W. H. Honor, M D., Wyandotte, Mich., and Homer M. Smathers, M.D., Detroit 498

NOVEMBER 1947. NUMBER 5

Development of an Artificial Kidney: Experimental and Clinical Experiences. Gordon Murray, M.D., F.R.C.S. (Canada), F.R.C.S. (England), Assisted by Edmund Delorme, M.D., F.R.C.S. (Canada) and Newell Thomas, Toronto, Canada 505

Medullary Tractotomy for Relief of Intractable Pain in Upper Levels. Albert S. Crawford, M.D., Detroit 523

Acute Appendicitis: An Analysis of Eight Hundred and Seventy-Eight Cases at St. Luke's Hospital, Chicago. E. Lee Strohl, M.D., and Francis E. Sarver, M.D., Chicago 530

Experiences with the Blalock Operation for Tetralogy of Fallot. F. D. Dodrill, M.D., Detroit 539

Anesthetic Mortality in Intrathoracic Surgery. H. Livingstone, M.D.; G. Light, M.D.; J. Coto, M.D., and R. Engel, M.D., Chicago 545

Ascorbic Acid, Thiamine, Riboflavin and Nicotinic Acid in Relation to Acute Burns in Man. C. C. Lund, M.D.; S. M. Levenson, M.D.; R. W. Green, M.D.; R. W. Paige, B.S.; P. E. Robinson, B.S.; M. A. Adams, B.S.; A. H. Macdonald, B.S.; F. H. L. Taylor, Ph.D., and R. E. Johnson, M.D., Ph.D., Boston 557

Aluminum Hydroxide and Magnesium Trisilicate Plus Mucin in Treatment of Peptic Ulcer: Gastroscopic and Clinical Studies. Leo L. Hardt, M.D., and Leonard P. Brodt, M.D., Chicago 584

Newer Aspects of Benign Tumors of the Breast. Murray M. Copeland, M.D., Washington, D. C. 590

Survey of Intestinal Obstruction. Conrad J. Baumgartner, M.D., Beverly Hills, Calif. 607

Pleuropulmonary Manifestations of Amebiasis. Hiram T. Langston, M.D., and Robert T. Fox, M.D., Chicago 618

Some Physiologic and Biochemical Alterations Incident to Surgical Intervention: Report of a Case. William H. Fishman, Ph.D., Chicago, and Harry H. LeVeen, M.D., New York 624

Giant Sarcoma of the Pleura: Report of a Case. William L. McNamara, M.D.; William F. Sargent, M.D., and K. J. Costich, M.D., Hines, Ill 632

DECEMBER 1947. NUMBER 6

Control of Arterial Hemorrhage by a Gelatin Sponge "Cuff" and Chromic Surgical Gut Sheath: A New Experimental Method. Hilger Perry Jenkins, M.D.; Edward Senz, M.D.; Howard Owen, M.D., and Robert Jampolis, M.D., Chicago 637

Orthopedic Operative Procedures Allowing Early Motion. Frank E. Stinchfield, M.D., New York 650

DECEMBER—*Continued*

PAGE

Interosseous Wiring in the Treatment of Fractures of the Mandible. Stuart Gordon, M.D., M.S. (T), F.R.C.S. (C), F.A.C.S., Toronto, Canada..... 660

Chemotherapy in Gas Gangrene: An Experimental Study. W. A. Altemeier, M.D.; W. L. Furste, M.D., and W. R. Culbertson, M.D., Cincinnati.... 668

Osteochondrosarcoma of the Sternum: Use of Tantalum Plate as a Prosthesis. R. Arnold Griswold, M.D., Louisville, Ky..... 681

Hernial Repair Using Cooper's Ligament: Follow-Up Studies on Three Hundred and Sixty-Seven Operations. Henry N. Harkins, M.D., Seattle, and Richard H. Schug, M.D., Detroit..... 689

Effect of Distention of the Biliary Tract on the Electrocardiogram: Experimental Study. G. B. Hodge, M.D.; A. L. Messer, M.D., and Henry Hill, M.S., Durham, N. C..... 710

Treatment of Postoperative Swelling of the Arm Following Mastectomy: Preliminary Report. Henry A. Hanelin, M.D., Chicago; Jonathan M. Williams, M.D., Washington, D. C.; Sol M. Wolffson, M.D., Oak Park, Ill., and E. Davis Wernick, M.D., Chicago..... 723

Neurovascular Syndrome of the Arm Associated with Hypertrophied Subclavius Muscle: Report of a Case Including Operative Treatment. Eugene E. Cliffton, M.D., New Haven, Conn..... 732

Precautionary Administration of Penicillin in Surgical Procedures on Bones and Joints. Joseph Buchman, M.D., and John E. Blair, Ph.D., New York 743

General Index..... 751